

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of Claims

1-9 (Cancelled)

10. (Currently Amended) A system for providing information across a computer network, said system comprising:

an information registering device which displays an image of content rendered by a media and includes a positioning device and a sending unit, said positioning device indicating a desired object in said displayed image, and said sending unit sending a first identification information containing an object information relevant to said indicated desired object, a first keyword information entered by a user and a first reference information relevant to said content rendered by media to said computer network;

an information viewing device that displays an image of content rendered by said media and sends a second keyword information entered by another user to said computer network; and

a database that links said first identification information, said first keyword information and said first reference information received from said information registering device through said computer network, and stores said linked information;

wherein said database performs a first matching process to match said first keyword

information from said information registering device and said second keyword information from said information viewing device; and sends at least one of said first identification information and said first reference information linked to said first keyword information according to the result of said first matching process to said computer network; and
said information viewing device displays at least one of said first identification information and said first reference information from said database.

11. (Previously Presented) The system for providing information as recited in claim 10, wherein said database sends a stored keyword list prior to receiving said second keyword information from said information viewing device in response to an inquiry made from said information viewing device.

12. (Previously Presented) The system for providing information as recited in claim 10, wherein said database further receives second identification information from said information viewing device, and said database further performs a second matching process to match said first identification information from said information registering device and said second identification information from said information viewing device, and sends said first reference information linked to said first identification information and said first keyword information according to a result of said second matching process to said information viewing device through said computer network.

13. (Previously Presented) The system for providing information as recited in claim 10, wherein said database further receives second reference information from said information viewing device;

 said database further performs a third matching process to match URLs or comments respectively included in the first and second reference information, and sends said first identification information linked to said first reference information and said first keyword information according to a result of said third matching process to said information viewing device through said computer network.

14. (Previously Presented) The system for providing information as recited in claim 10, wherein said first matching process in said database has a process for determining:

 whether one keyword from the first keyword information and the other keyword from the second keyword information match or are duplicates;

 whether time length associated with the first keyword information and time length associated with the second keyword information match or are duplicates in addition to determining whether one keyword from the first keyword information and the other keyword from the second keyword information match or are duplicates; or

 whether a time when the first keyword information was registered falls within a time length associated with the second keyword information in addition to determining whether one keyword from the first keyword information and the other keyword from the second keyword information match or are duplicates.

15. (Previously Presented) The system for providing information as recited in claim 10, wherein said database comprises:

a keyword table which has at least an ID field for uniquely identifying a record entry and a keyword field to contain the first keyword, wherein one record entry includes at least its ID and a keyword;

a reference information table which has at least an ID field for uniquely identifying a record entry, a reference information field containing the first reference information, and a keyword ID field to contain the keyword ID associated with the reference information, wherein one record entry includes at least its ID, reference information, and the associated keyword ID;

a target image object table which has at least an ID field for uniquely identifying a record entry, a time and frame field containing information to identify media information, and an link ID field containing the ID of reference information linked with the object, wherein one record entry includes at least its ID, media information, and the ID of reference information linked with the object.

16. (Previously Presented) The system for providing information as recited in claim 10, wherein:

said content rendered by media is video image information distributed by TV broadcasting;

said first identification information further includes at least one of a broadcasting channel number over which the content was or will be broadcasted, receiving area, specified time length;

 said first keyword information includes at least one of a keyword, keyword ID number, keyword type, specified time length, time when the keyword was registered, and a number of times the keyword has been selected as user preference; and

 said reference information includes a URL (Uniform Resource Locator) that designates a Web site/page on the Internet.

17. (Currently Amended) A method for providing information across a computer network, said method comprising steps of:

 displaying an image of content rendered by media on an information registering device; sending an identification information containing an object information relevant to a desired object indicated by a positioning device from said displayed image, a first keyword information entered by a user and a reference information relevant to said content rendered by media from said information registering device to a database through said computer network;

 linking said identification information, said first keyword information and said reference information from said information registering device in said database;

 storing said linked information in said database;

 matching said first keyword information and a second keyword information, which is entered by another user, sent from an information viewing device through said computer

network, in said database;

providing at least one of said identification information and said reference information linked to said first keyword information according to the result of said matching from said database to said information viewing device through said computer network;

displaying at least one of said first identification information and said first reference information from said database on said information viewing device.

18. (Currently Amended) A method for providing information across a computer network, said method comprising step of:

displaying an image of content rendered by a media;

making inquiry a media information regarding to said displayed image of content of said media to an information search device that is connected to said computer network;

receiving and displaying a keyword information regarding to said media information searched by said information search device;

sending an identification information containing an object information relevant to a desired object indicated from said displayed image, a first keyword information entered by a user selected in said displayed keyword information and a reference information relevant to said content rendered by media through said computer network;

linking said sent identification information, said first keyword information and said reference information in said information search device;

storing said linked information in said information search device;

searching said stored first keyword information corresponding to a second keyword information, which is entered by another user, sent from an information terminal in said information search device through said computer network;

providing at least one of said identification information and said reference information linked to the searched keyword information from said information search device to said information terminal through said computer network, when said there is keyword information corresponding to said second information.

19. (Currently Amended) An apparatus for providing information across a computer network, said apparatus comprising: a database which stores a received first identification information containing an object information relevant to a desired object indicated from a displayed image of content of media, a first keyword information entered by a user and a first reference information relevant to said media from a first information terminal, said first identification information, said first keyword information and said first reference information are linked each other;

a matching unit which performs a first matching process to match said first keyword information stored in said database and a received second keyword information, which is entered by another user, from a second information terminal through said computer network; and

a sending unit which provides at least one of said first identification information and said first reference information linked to said first keyword information according to the result

of said first matching process to said second information terminal through said computer network.

20. (Previously Presented) The apparatus for providing information as recited in claim 19, wherein said apparatus sends a keyword list prior to receiving said second keyword information in response to inquiry made from said second terminal.

21. (Previously Presented) The apparatus for providing information as recited in claim 19, wherein said database further receives second identification information from said second information terminal;

 said database further performs second matching process to match said first identification information stored in said database and said second identification information from said second information terminal, and sends said first reference information linked to said first identification information and said first keyword information according to the result of said second matching process to said second information terminal through said computer network.

22. (Previously Presented) The apparatus for providing information as recited in claim 19, wherein said database further receives second reference information from said second information terminal;

 said database further performs third matching process to match URLs or comments

respectively included in the first and second reference information, and sends said first identification information linked to said first reference information and said first keyword information according to the result of said third matching process to said second information terminal through said computer network.

23. (Previously Presented) The apparatus for providing information as recited in claim 19, wherein said first matching process has process for determining;

whether one keyword from the first keyword information and the other keyword from the second keyword information match or are duplicate ones;

whether time length associated with the first keyword information and time length associated with the second keyword information match or are duplicate ones in addition to determining whether one keyword from the first keyword information and the other keyword from the second keyword information match or are duplicate ones; or

whether time when the first keyword information was registered falls within the time length associated with the second keyword information in addition to determining whether one keyword from the first keyword information and the other keyword from the second keyword information match or are duplicate ones.

24. (Previously Presented) The apparatus for providing information as recited in claim 19, wherein said database comprises:

a keyword table which has at least an ID field for uniquely identifying a record entry

and a keyword field to contain the first keyword, wherein one record entry includes at least its ID and a keyword;

a reference information table which has at least an ID field for uniquely identifying a record entry, a reference information field containing the first reference information, and a keyword ID field to contain the keyword ID associated with the reference information, wherein one record entry includes at least its ID, reference information, and the associated keyword ID;

a target image object table which has at least an ID field for uniquely identifying a record entry, a time and frame field containing information to identify media information, and an link ID field containing the ID of reference information linked with the object, wherein one record entry includes at least its ID, media information, and the ID of reference information linked with the object.

25. (Previously Presented) The apparatus for providing information as recited in claim 19, wherein:

said content rendered by media is video image information distributed by TV broadcasting;

said first identification information further includes at least any of a broadcasting channel number over which the content was or will be broadcasted, receiving area, specified time length;

said first keyword information includes at least any of a keyword, keyword ID number,

keyword type, specified time length, time when the keyword was registered, and the number of times the keyword has been selected as user preference; and

 said reference information includes a URL (Uniform Resource Locator) that designates a Web site/page on the Internet.